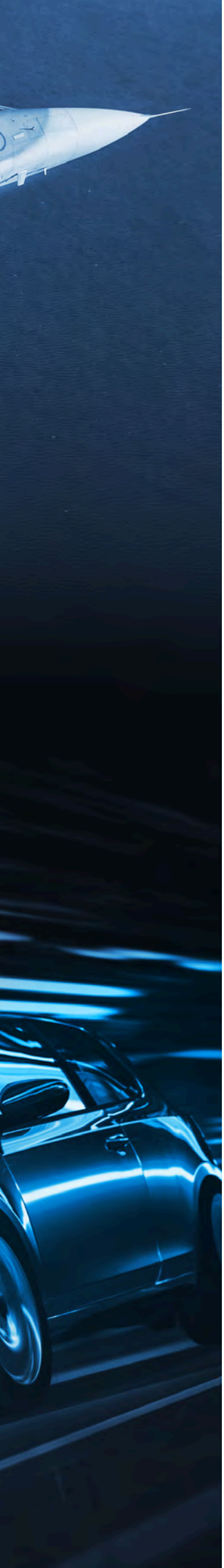
MODIG
MACHINE TOOL SWEDEN

TOMORROW'S
TECHNOLOGY
TODAY

Machine Portfolio


262



"Your ingenuity, experience and enthusiasm have demonstrated your capacity for creative ideas and high productivity"

Boeing Commercial Airplane Group presenting Outstanding Performance Award to Modig Machine Tool

Tomorrow's Technology Today.

Modig Machine Tool is known as one of the world's leading companies in high speed machining technology. Both developing and building machining solutions that incorporate the latest technologies, our unwavering commitment to excellence in specialized production equipment is rewarded by orders from prestigious companies.

In Swedish, Modig means brave and is shown by our constant innovation, cutting edge technology, and, unmatched standards of excellence. There is no room for compromise in quality at Modig.

Welcome to the Modig Way!

Welcome to the Modig Way

Contents

Modig Machine Tool

Modig Machine Tool was founded in 1947 in Virserum, Sweden with a focus on building best in class machines. Modig lathes, universal drills and machining centers became well known throughout the world. During the 1980's, Modig started to develop high speed machining centers, and since the production of the first HSM in 1987, Modig has continuously redefined the world's machining standards.

Today, Modig is still family owned and celebrated as one of the world's leading companies in manufacturing premium performance machining centers. With over 11,000 machines sold worldwide, the Modig brand is a trusted partner for your business.

3rd generation of Modig, David Modig, President Modig Machine Tool

Modig Mekaniska Verkstad AB, was founded in 1947 by the brothers Harry, Arne, Sture and Erik Modig. The little boy at the bottom left is Percy Modig.

Tomorrow's Technology Today

Modig's technical ingenuity and serviceability are second to none. Modig machining centers are optimized for companies with a need for best-in-class technology and speed. With unique solutions, flexible configurations and a focus on quality, Modig stays at the forefront of the machine tool industry. Our machines provide a competitive advantage in industries such as: aircraft, automotive, transportation, heavy industries and large component manufacturing. Modig redefines "affordable customization" by meeting our customer's stringent demands for high productivity, total reliability, and the highest-level of accuracy. Each customer's unique needs dictate their custom configuration.

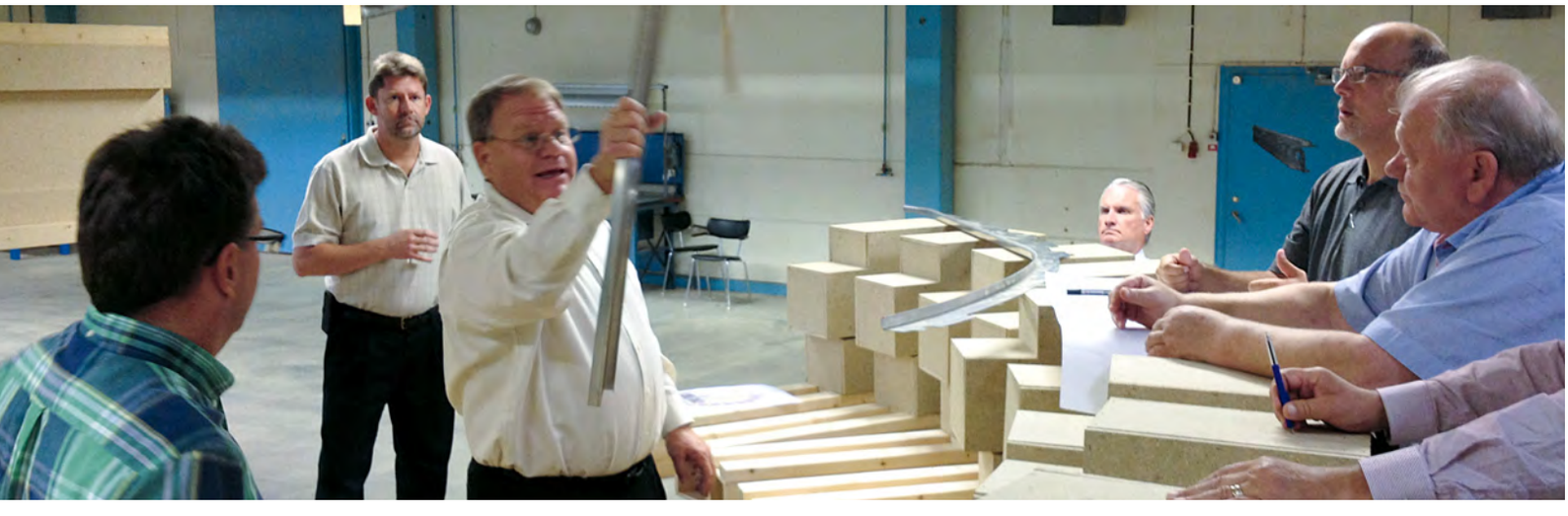
The World is our Market

Modig is recognized worldwide for our innovative adaptations to meet challenging machining requirements while providing unparalleled machining accuracy. This enables our customers to achieve world-class quality - with shortened production times, leading to decreased, overall manufacturing costs. We have achieved these successes all over the world!

"For 70 years Modig has been on the cutting edge of technology - that's where we intend to stay"

– David Modig, President Modig Machine Tool

Our development process puts our customers in a leading position compared to its competitors.



Knowledge and Experience

Our mission is to harness our knowledge and experience, in close collaboration with our cutting-edge industrial partners, to develop machining solutions that enhance our customer's production efficiency and profitability. It is our ingenuity, that allows us to create products that define latest-technology industry standards.

Development Process

The fact that Modig develops and manufactures both the machine and the fixtures provides a significant advantage for our customers. We provide our customers with manufacturing solutions that make them market leaders in their industry segments. We bring our customers into the development process at a very early stage, which is key to reducing the development cycle.

Brand-new facilities for machine demonstrations, run time validations and operator training.

Investing in the Future

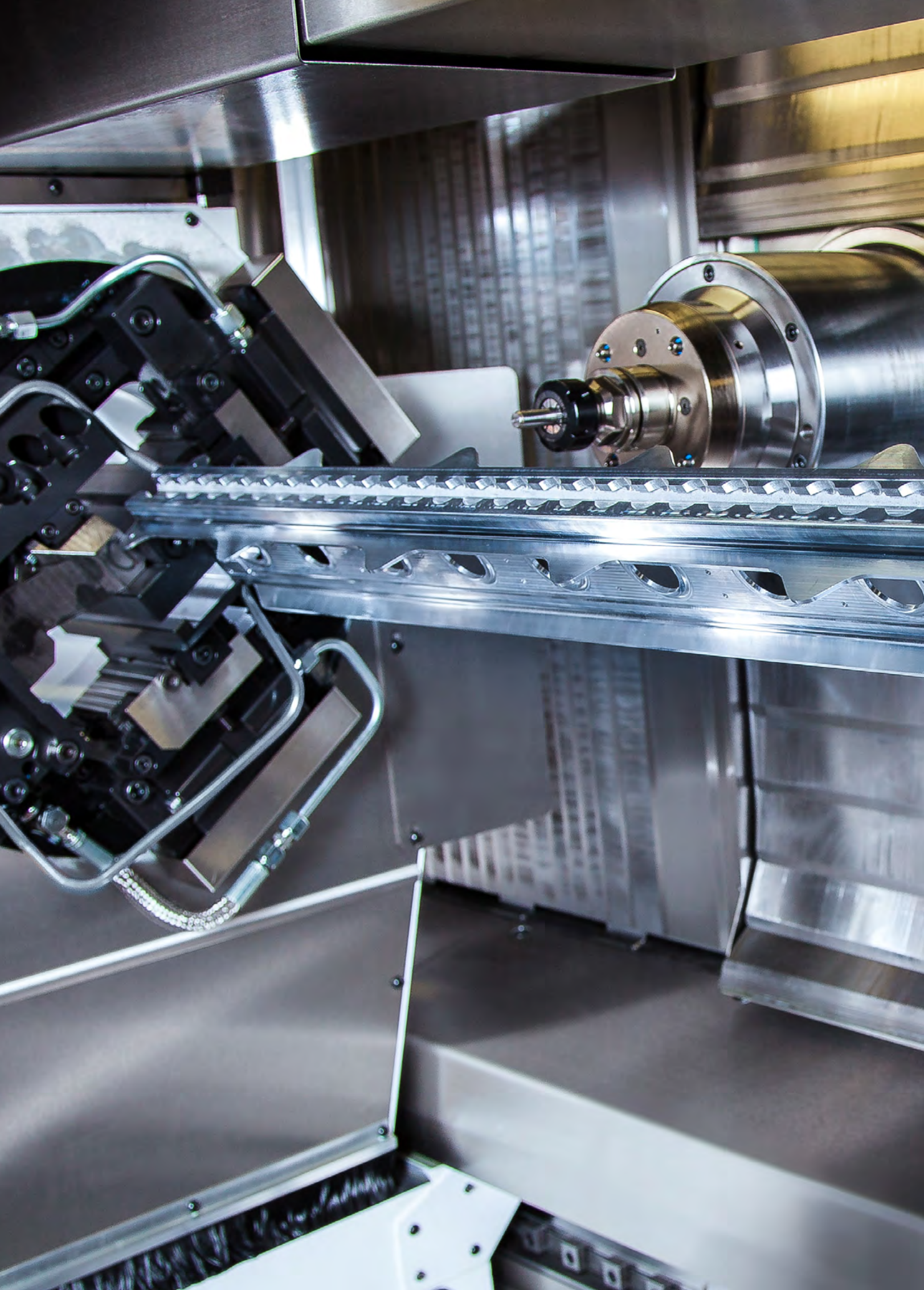
Modig Sweden

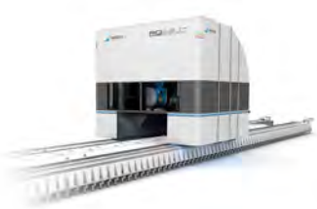
In 2019, Modig Machine Tool opened its second plant in Sweden. This new facility in Kalmar is now the headquarters of Modig Machine Tool, housing offices, a workshop with assembling lines, Research & Development, along with, facilities for machine demonstrations, training and customer trials. This investment in our company enables us to deliver more high technology solutions to manufacturers all over the world.

Modig US

Modig Machine Tool also has a new North American Headquarters in Wichita, Kansas. Located in Old Town, the heart of the “Air Capital of the World”, this facility will showcase the newest machines in our portfolio. Our location in Wichita has been built around the concept of a complete customer satisfaction experience. Designed for training events, Modig can provide customers the latest in programming methodology, operator training, machine maintenance, and repair. Machine demonstrations and run time validations can also be performed in the new facility, which are integral parts of our run time guarantees.

The Modig US headquarters will also stock key spare parts that are in addition to our distributor’s parts inventory.





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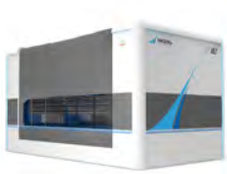

P51

Al UP CI S Ti

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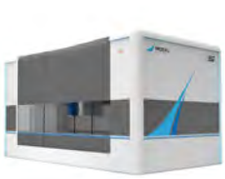

D80

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H12

Al UP

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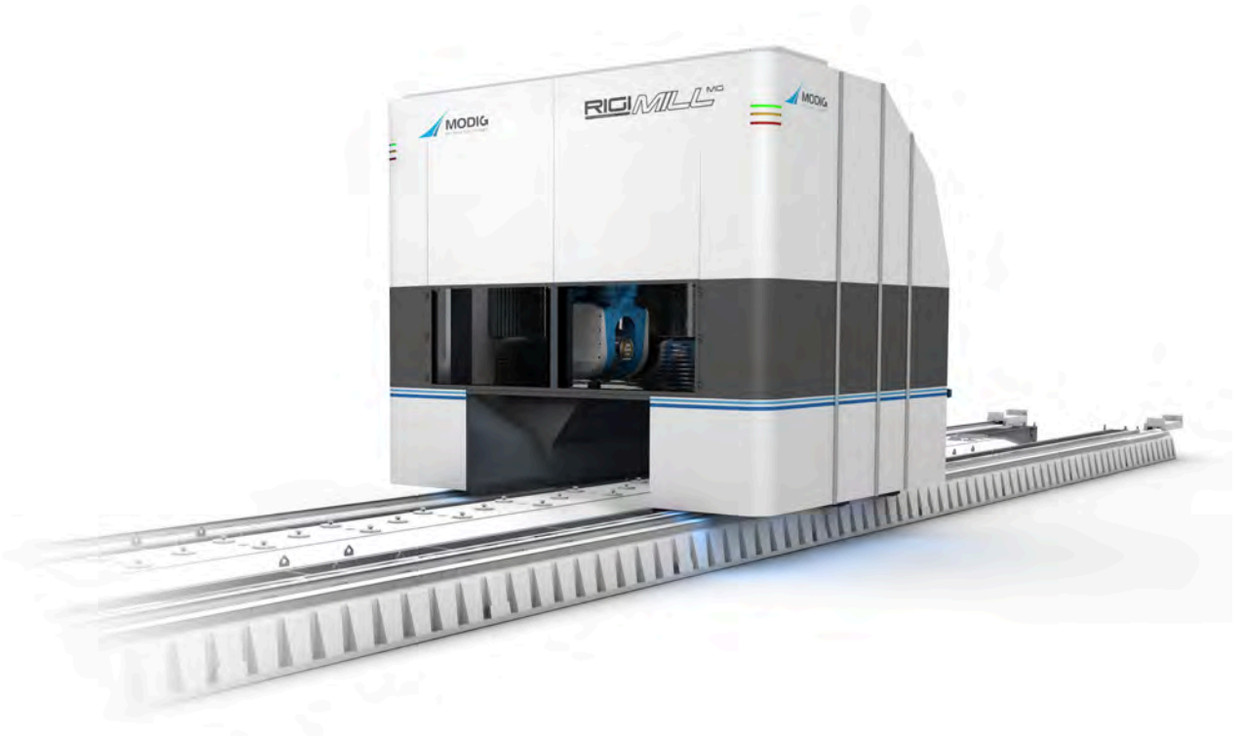
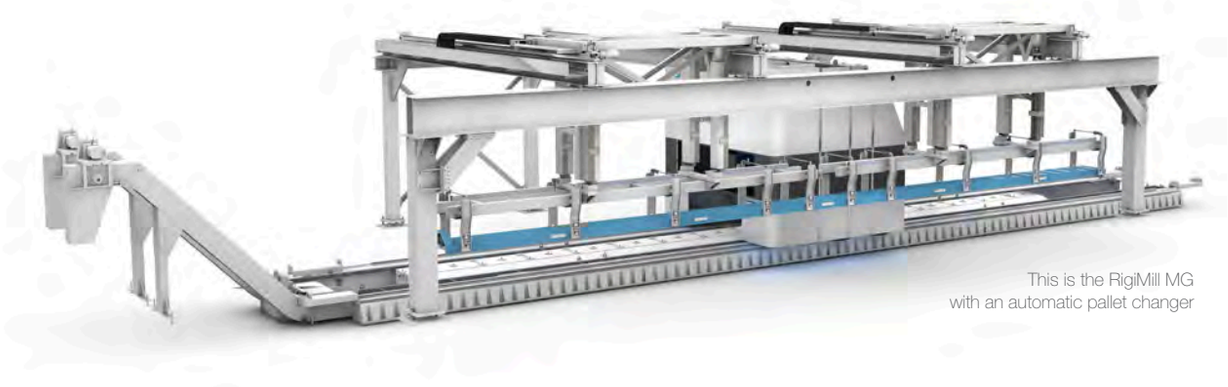
Hard Material
- CI Cast Iron
- S Steel
- Ti Titanium

Soft Material
- Al Aluminum
- UP Composite

Processing Angle



The RigiMill has achieved a chip removal rate of 1,000 cubic inches (16.4 liters) per minute in aerospace aluminum and is available with an automatic pallet system up to 950" (24 m)!



This is the RigiMill MG
with an automatic pallet changer

RIGIMILL MG

Al UP CI S Ti

RigiMill Moving Gantry (MG) was developed to produce the fastest chip removal rates in the world. Various spindle configurations achieve chip removal rates up to 55 cubic inches/min (0.9 liter/min) in titanium and 1,000 cubic inches/min (16.4 liters/min) in aluminum, this machine makes it possible to use the same machine for high speed roughing and finishing. Equipped with a single spindle, high speed gantry, the RigiMill MG provides the highest quality and precision for machining either aluminum or hard metals.

It is the unique architecture, as the most compact ever gantry structure with monobloc heavy cast iron bridge structure, as well as, its "no Ram" design through vertical moving cross-rail that offers the most rigid spindle thanks to constant overhang feature, and make the RigiMill MG as being a formidable "beast of efficiency".

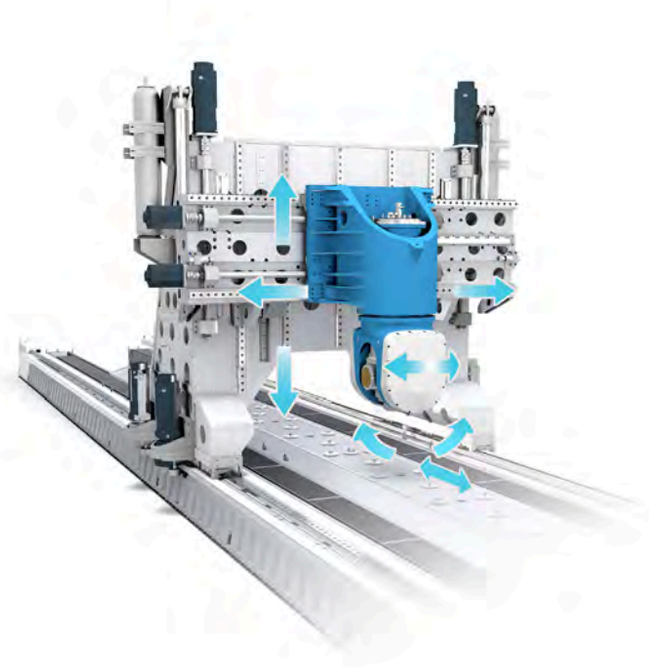
The RigiMill MG purposely reduced scale is an innovative design solution that offers new achievable performances compared to existing machines in the market. It can be configured to each customer's specific needs and can be extended in the X-axis direction after installation. RigiMill MG is the best manufacturing platform in the world for long part production machining!

		RigiMill MG
TRAVELS	X-axis	Unlimited
	Y-axis	61" (1,560 mm)
	Z-axis	35” (900 mm)
	A-axis	+/- 110 °
	C-axis	+/- 360 °
MAX PART CROSS SECTION	Length	Unlimited
	Width	55" (1,400 mm)
	Height	35” (900 mm)
ALUMINUM SPINDLE	Speed	up to 30,000 rpm
	Power S1	up to 272 hp (200 kW)
HARD METAL SPINDLE	Speed	0-12,000 rpm
	Torque S1	370-1,845 ft-lbs (500-2,500 Nm)
TOOL CHANGER	Number of tools	in steps of 50 up to 500
	Tool taper	HSK63-125A
	Tool changing time	14 sec, chip to chip
FEED RATES	X-Y-Z-axes	0-2,800”/min (0-70 m/min)
	A and C-axes	360 °/sec
ACCELERATION		26 ft/sec^2 (8 m/sec^2)

Subject to change.

HIGHLIGHTS

- Up to 1,000 cubic inches (16.4 liters) of chip removal per minute in aluminum
- Up to 55 cubic inches (0.9 liter) of chip removal per minute in titanium
- Industry leading spindle performance
- Most-rigid compact gantry in the world
- Roughing and finishing in the same machine
- Feed rate of 2,800”/min (0-70 m/min) in all axis
- Automatic pallet system up to 950” (24 m)
- Robotic tool loading with tool magazine up to 500 tools
- Balluff chip system for cutting tool identification
- Accelerations, X-Y-Z-axes 26 ft/sec^2 (8 m/sec^2)
- Increased productivity per square foot higher than competitors
- Cycle time reduction is generally 40% over multi spindle machines - per part!
- CNC work holding options



This is the RigiMill MT
with an automatic pallet system

RIGIMILL MT

AI UP CI S Ti

The RigiMill Moving Table (MT) is the fixed-gantry plus moving table design, with identical bridge structure as the RigiMill Moving Gantry (MG). RigiMill MT provides the highest quality in precision and rigidity, with chip removal rates up to 55 cubic inches/min (0.9 liter/min) in titanium and 1,000 cubic inches/min (16.4 liters/min) in aluminum.

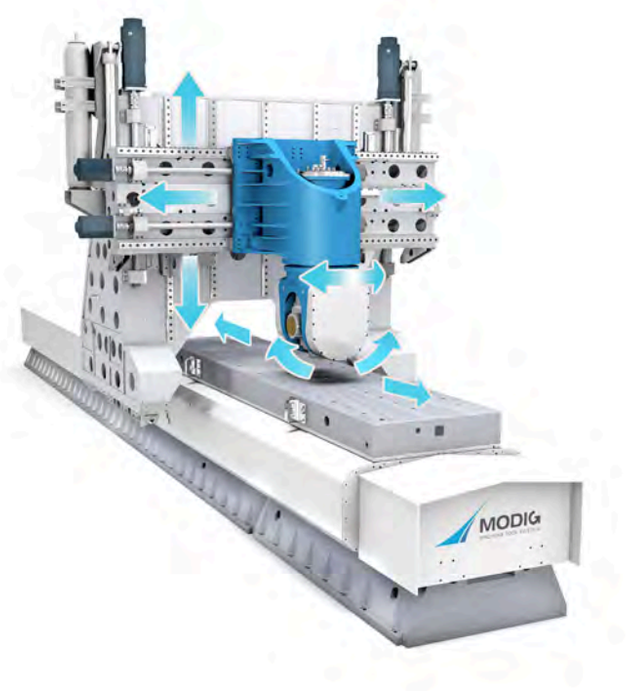
RigiMill MT is equally as compact as the RigiMill MG but requires less floor space. Its working envelope is suitable for shorter parts, up to 240" (6,000 mm) long. When offered with a Modig standard pallet system, it has an impressive minimum foot print within a fully automatic palletized cell.
The RigiMill MT design includes a complete machine housing where the parts are processed into a fully covered working zone.
RigiMill MT is available in three sizes 80" (2,000 mm), 160" (4,000 mm) or 240" (6,000 mm).

		RigiMill MT 2000	RigiMill MT 4000	RigiMill MT 6000
TRAVELS	X-axis	100” (2,500 mm)	180” (4,500 mm)	260” (6,500 mm)
	Y-axis	61" (1,560 mm)		
	Z-axis	35” (900 mm)		
	A-axis	+/- 110 °		
	C-axis	+/- 360 °		
MAX PART CROSS SECTION	Length	80” (2,000 mm)	160” (4,000 mm)	240” (6,000 mm)
	Width	55” (1,400 mm)		
	Height	30” (700 mm)		
ALUMINUM SPINDLE	Speed	up to 30,000 rpm		
	Power S1	up to 272 hp (200 kW)		
HARD METAL SPINDLE	Speed	0-12,000 rpm		
	Torque S1	370-1,845 ft-lbs (500-2,500 Nm)		
TOOL CHANGER	Number of tools	100		
	Tool taper	HSK63-125A		
	Tool changing time	14 sec, chip to chip		
FEED RATES	X-Y-Z-axes	0-2,800”/min (0-70 m/min)		
	A and C-axes	360 °/sec		
ACCELERATION		26 ft/sec^2 (8 m/sec^2)		

Subject to change.

HIGHLIGHTS

- Up to 1,000 cubic inches (16.4 liters) of chip removal per minute in aluminum
- Up to 55 cubic inches (0.9 liter) of chip removal per minute in titanium
- RigiMill Moving Table provides highest quality in precision and rigidity
- Automatic pallet system up to 240” (6,000 mm)
- Full automation options available
- Balluff chip system for cutting tool identification
- Accelerations, X-Y-Z-axes 26 ft/sec^2 (8 m/sec^2)
- Small footprint
- Robotic tool loading with tool magazine up to 100 tools
- Fully enclosed with implemented safety functions



"We guarantee 40% cycle time reduction with the HHV!"

– David Modig, President Modig Machine Tool

HHV2 HHV3

AI UP S Ti

The HHV (Horizontal High Velocity) was developed in close cooperation with the world's largest aircraft manufacturers. Since its introduction, it quickly became the first choice of top performing machine shops.

The HHV is a universal machining center for bar or extrusion components. It is ideal for limited production runs, nesting, or high-volume production. Raw material is loaded from the left side into the machine, the HHV automatically pulls the raw material into position for machining and delivers finished parts into a part catcher. Instead of cutting raw material into specific lengths, the HHV handles uncut bars and extrusions. The benefit of making many parts from the same size bar or extrusion is: reduced setup time, no workholding and a significant reduction in cycle time. Standard machining often requires multiple setups. The HHV machines parts complete in one setup, with no work holding.

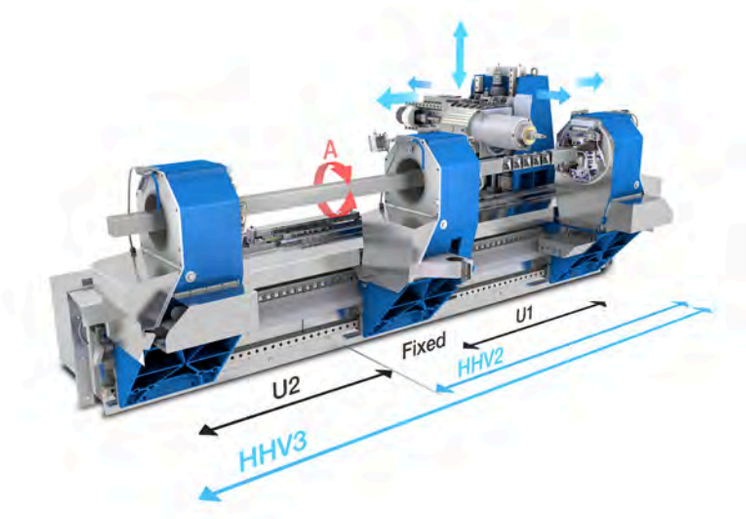
HHV 2 and HHV 3 designates the number of rotary tables.

		HHV 2	HHV 3
TRAVELS	X-axis	60" (1,500 mm)	
	Y-axis	20" (420 mm)	
	Z-axis	10" (260 mm)	
	U1-axis	46" (1,170 mm)	–
	U1/U2-axis	–	35" (900 mm)
	B-axis optional	+/- 15 °	
	A1/A2-axis	+/- 190 °	
	A3-axis	–	+/- 190 °
MAX PART CROSS SECTION	Bar *	5 x 5" (127 x127 mm)	
	Extrusion	6 x 10" (150 x 250 mm)	
ROTARY CHUCKS	Feed rates	0-60 rpm	
	Jaw change system	Quick change 1 min/rotary chuck	
	Number of rotary tables	2	3
ALUMINUM SPINDLE	Speed	0-30,000 rpm	
	Power S1	60 hp (45 kW)	
HARD METAL SPINDLE	Speed	0-20,000 rpm	
	Torque S1	59 ft-lbs (80 Nm)	
TOOL CHANGER	Number of tools standard	55 and more on request	
	Tool taper	HSK-63A	
	Tool changing time	8 sec, chip to chip	
FEED RATES	X-Y-Z-U-axes	0-2,400"/min (0-60 m/min)	
	A-axis, A1 and A2	60 rpm/min	
	B-axis optional	60 rpm/min	
	A-axis, A3	–	60 rpm/min
ACCELERATION		32 ft/sec^2 (10 m/sec^2)	

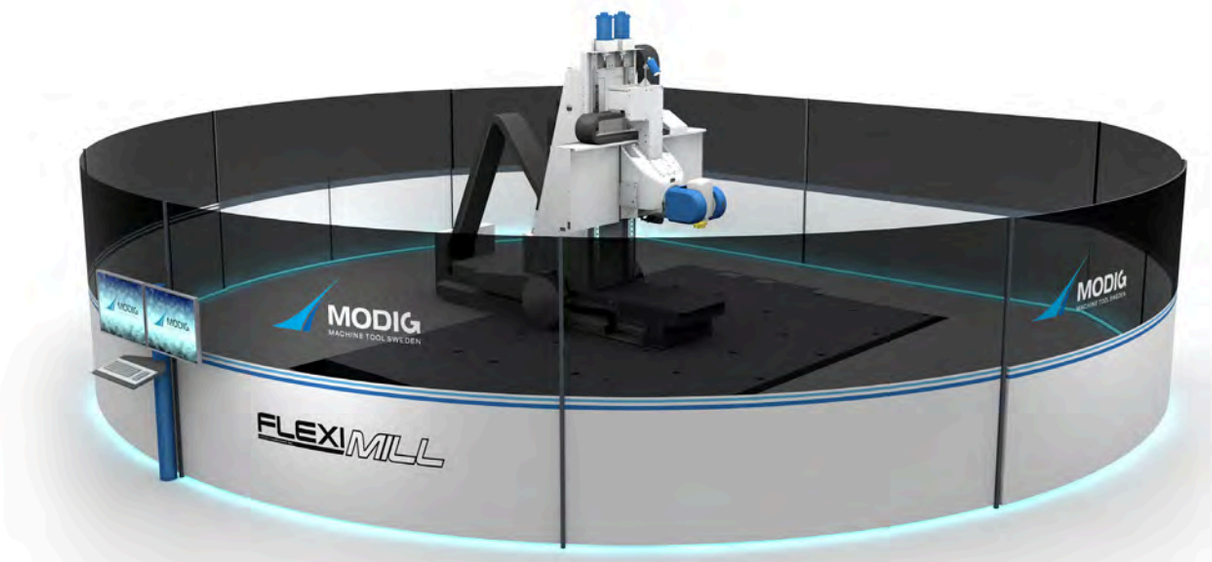
* Options for larger bar size Subject to change.

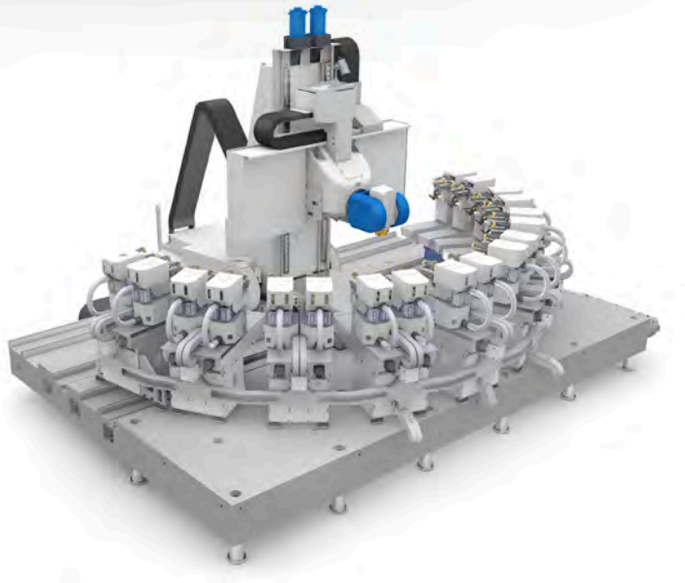
HIGHLIGHTS

- Bar and extrusion machine in one
- Full automation options available
- Better chip flow – from horizontal machining
- Complete parts in one setup
- Reduced cycle time up to 40-70%
- Material waste reduction
- High production rate capabilities
- Angle head machining possibilities
- Roughing, semi-finish and finishing mode
- A small footprint
- Low fixture and tooling costs
- Modular workholding designs for setup elimination
- Different part programs on the same extrusion or bar
- No special foundation required
- Balluff chip system for cutting tool automation



One stick of bar with many detail parts machined





Fixture option for the FlexiMill;
Frame Fixture with 36 CNC-axis

FLEXIMILL

PRODUCED BY MODIG MACHINE TOOL

AI UP

The FlexiMill is a horizontal, high-speed, six-axis machining center. It offers excellent process improvement opportunities to industries where various machining processes are required. Instead of requiring multiple machining operations, the fixtures are changed automatically.

The FlexiMill is a state-of-the-art horizontal-milling machine with up to six-axis. Complete customization potential, makes the FlexiMill a good manufacturing solution for many industries involving aluminum, steel, cast iron and composites machining. It accommodates components with a length up to 240" (6,000 mm) and a cross section of 80" (2,000 mm). The FlexiMill is mounted on a cast iron bed that makes the machine moveable, requires a relatively simple foundation and less floorspace than competitive platforms. It can be installed with a simple, open machine cover or with a complete enclosure.

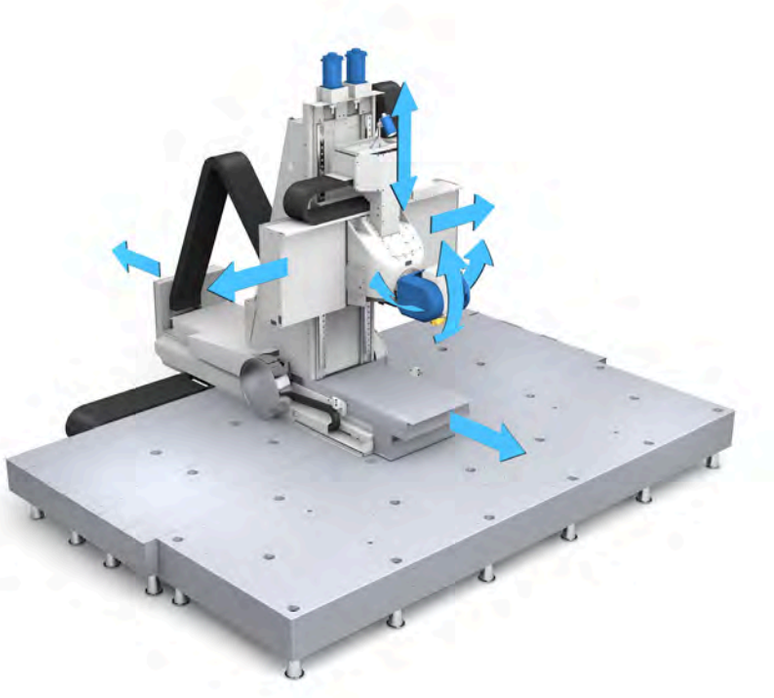
The FlexiMill open architecture is typically meant for easy design integration of specific tooling of complex high value parts.

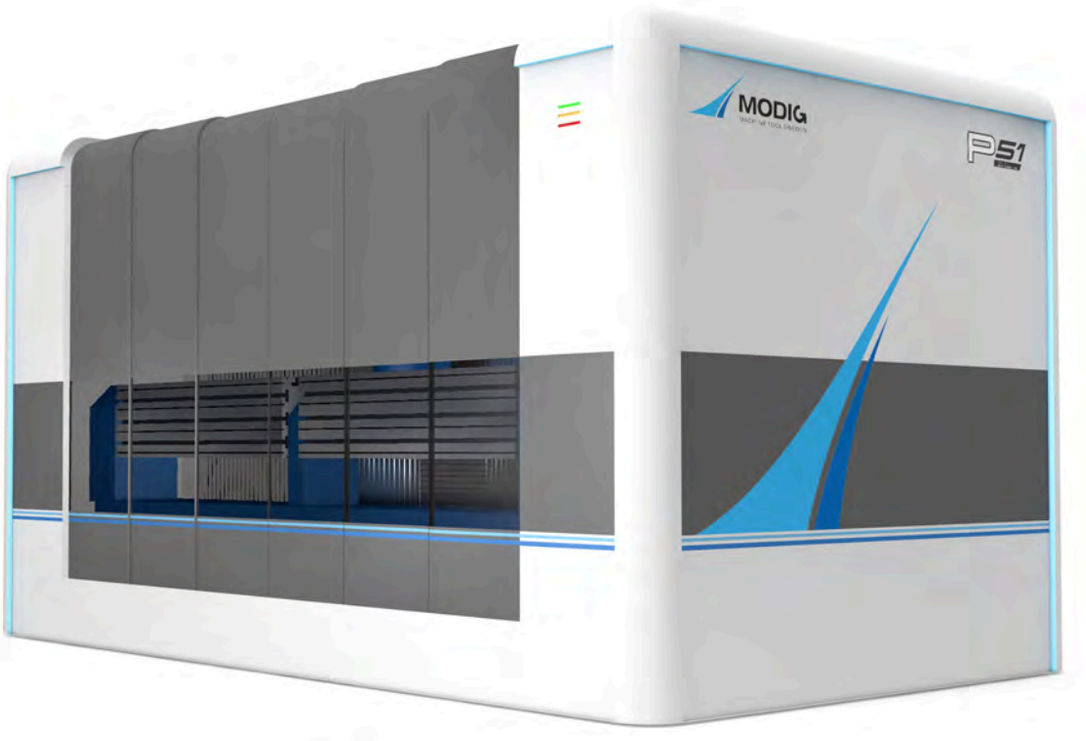
		FlexiMill
TRAVELS	X-axis	80-395" (2,000-10,000 mm)
	Y-axis	55" (1,400 mm)
	Z-axis option 1	90" (2,200 mm)
	Z-axis option 2	47" (1,200 mm)
	A-axis	+/- 110 °
	C-axis	+/- 190 °
	U-axis optional	50" (1,260 mm)
MAX PART CROSS SECTION	Length	395" (10,000 mm)
	Depth	90" (2,200 mm)
	Height	55" (1,400 mm)
ALUMINUM SPINDLE	Speed	up to 30,000 rpm
	Power S1	up to 168 hp (125 kW)
TOOL CHANGER	Number of tools	up to 300
	Tool taper	HSK-63A
	Tool changing time	15 sec, chip to chip
FEED RATES	X-Y-Z-U-axes	0-2,400"/min (0-60 m/min)
	A and C-axes	360 °/sec
ACCELERATION		16 ft/sec^2 (5 m/sec^2)

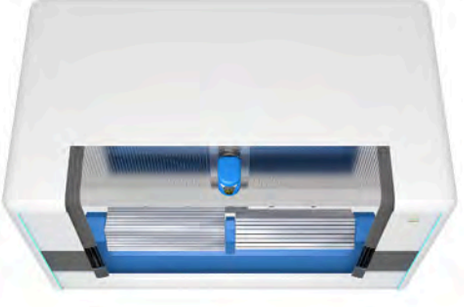
Subject to change.

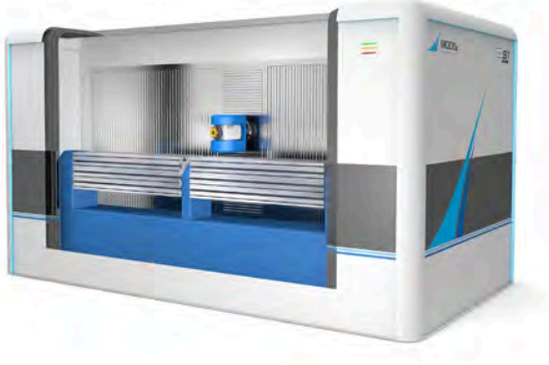
HIGHLIGHTS

- Horizontal high-speed 6-axis machining center
- Large working envelope
- Compatible with many of Modig's CNC-fixtures
- Configurable for soft metals
- Up to 70 CNC-axis
- Customized configurations
- Possibility for installation with an open machine cover or in a completely sealed machining area
- Versatile platform design that is configurable for multiple industries
- Full automation options available









P51

AI UP CI S Ti

The P51 is a moving column machine with a tombstone table. The machining center is ideally adapted for medium or large serial parts production in aluminum. It is designed with a complete machine housing that includes a working area where parts can be clamped on tombstone tilting table, up to 240" (6,000 mm) long. The P51 architecture is meant for parts vertically loaded on tombstone table, with horizontal machining.

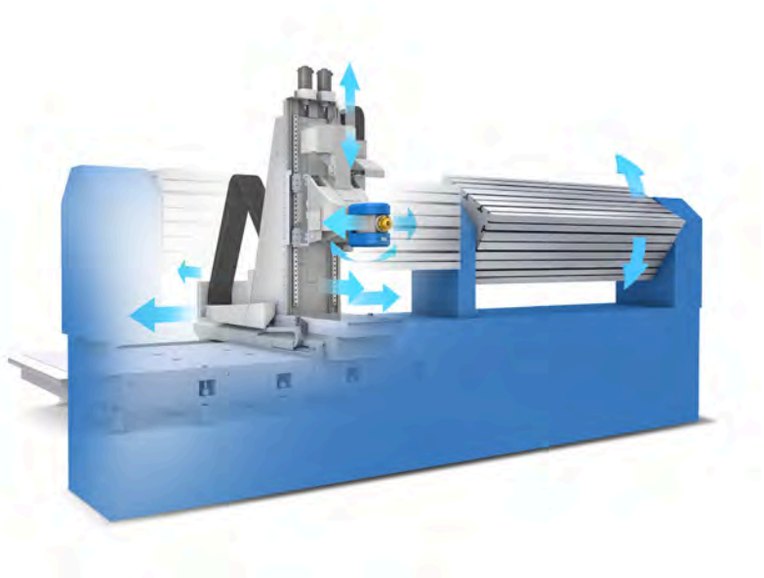
The large range of Modig standard automatic periphery devices allow the P51 to achieve high productivity with reduced setup time. Accuracy and adaptability make this machining platform well-suited for various market segments.
If machining shorter parts the P51 can be equipped with two different working zones. The tool changer is located between the zones to reduce tool changing time.
The P51 can be equipped with 5th or 6th axis configuration to give the highest versatility depending on required production type. The tombstone table can be indexing or CNC continuous axis.

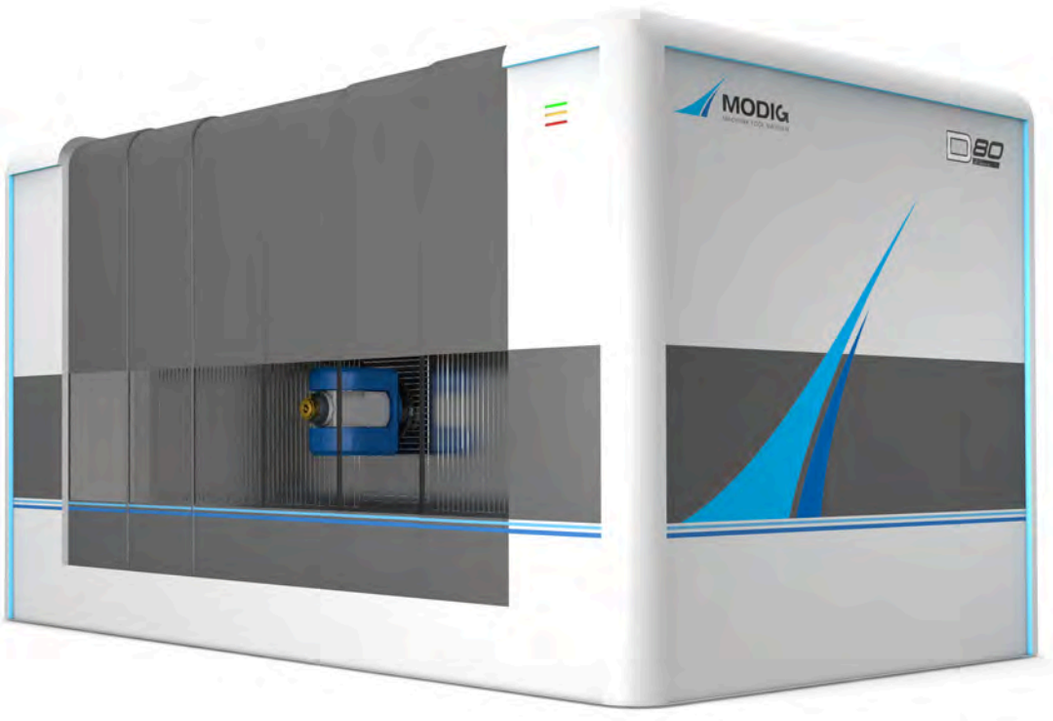
		P51	1	P51	2
TRAVELS	X-axis	100" (3,000 mm)		240" (6,000 mm)	
	Y-axis	60" (1,500 mm)			
	Z-axis	up to 40" (1,000 mm)			
	A-axis	+/- 110°			
	B-axis	Continuous 360°			
	C-axis	+/- 360°			
MAX PART CROSS SECTION	Length	100" (3,000 mm)		240" (6,000 mm)	
	Depth	28" (700 mm)			
	Height	40" (1,000 mm)			
ALUMINUM SPINDLE	Speed	up to 30,000 rpm			
	Power S1	up to 200 hp (150 kW)			
HARD METAL SPINDLE	Speed	12,000 rpm			
	Torque S1	330 ft-lbs (450 Nm)			
TOOL CHANGER	Number of tools	up to 100			
	Tool taper	HSK 63-100A			
	Tool changing time	15 sec, chip to chip			
FEED RATES	X-Y-Z-axes	0-2,400"/min (0-60 m/min)			
	A, B and C-axes	360°/sec			
TOMBSTONE	Size	27.5 x 27.5" (700 x700 mm)			
ACCELERATION		23 ft/sec^2 (7 m/sec^2)			

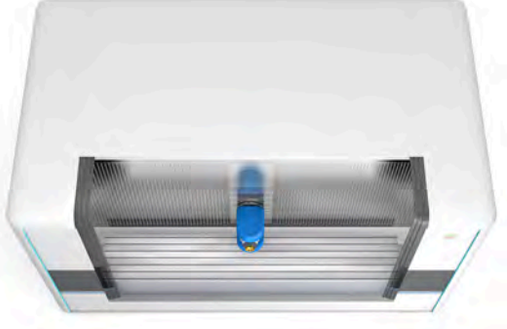
Subject to change.

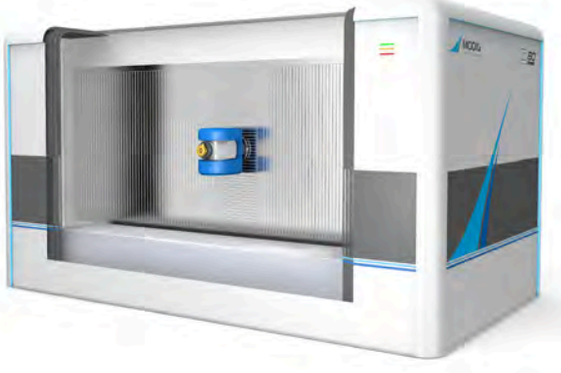
HIGHLIGHTS

- Moving column machine
- Tombstone table
- Spindle up to 200 hp (150 kW)
- Accuracy and precision to support the tightest-tolerance work requirement
- Multiple options makes the P51 well-suited for various industries
- Horizontal configuration
- Dual zone machining option









D80

PRODUCED BY MODIG MACHINE TOOL

Al UP CI S Ti

The D80 is a horizontal spindle machining center that process structural aluminum parts clamped on a horizontal fixed T-slot table. Its architecture is based on a moving column structure, sliding on a large and thick cast iron lower platform. The heavy platform allows a very stable machine motion with quite simple foundation requirement as well as easy geometry set.

The working area is fully enclosed, the main automatic door allows easy access and handling of parts. The back of the machine has large doors giving maintenance a clean entry point.

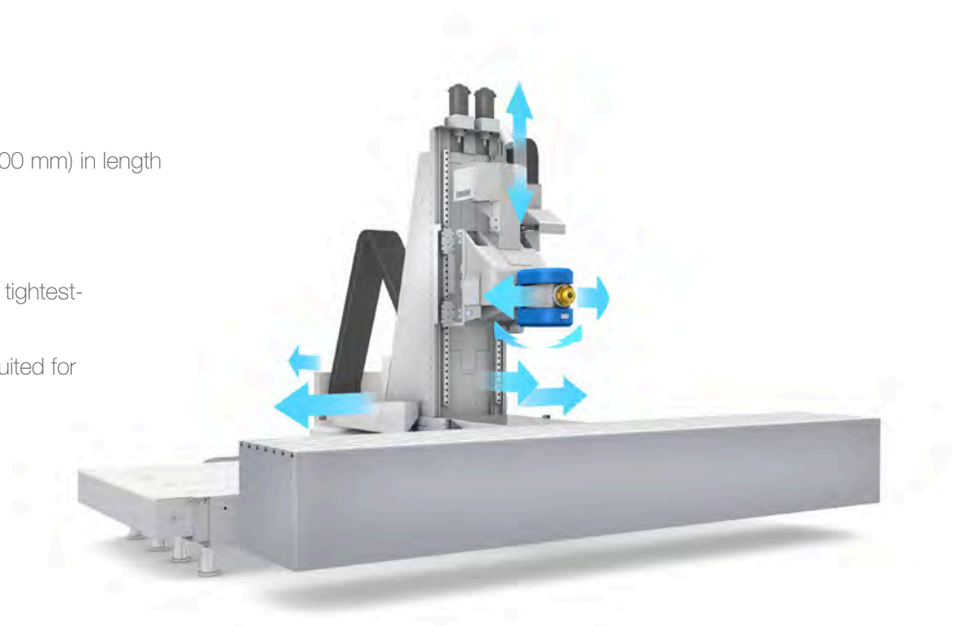
The D80 is designed for medium and large production serials parts, with available 3-, 4- or 5-axis milling application depending on customer request. Accuracy and adaptability make this machining platform well-suited for various market segments.

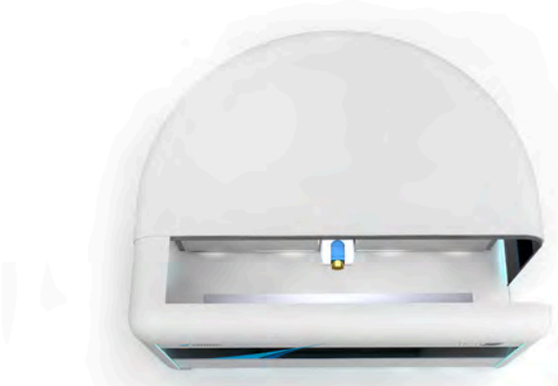
		D80	1	D80	2	D80	3
TRAVELS	X-axis	80" (2,000 mm)		160" (4,000 mm)		240" (6,000 mm)	
	Y-axis	60" (1,500 mm)					
	Z-axis	up to 40" (1,000 mm)					
	A-axis	+/- 110°					
	C-axis	+/- 360°					
MAX PART CROSS SECTION	Length	80" (2,000 mm)		160" (4,000 mm)		240" (6,000 mm)	
	Depth	40" (1,000 mm)					
	Height	40" (1,000 mm)					
ALUMINUM SPINDLE	Speed	up to 30,000 rpm					
	Power S1	up to 200 hp (150 kW)					
HARD METAL SPINDLE	Speed	12,000 rpm					
	Torque S1	330 ft-lbs (450 Nm)					
TOOL CHANGER	Number of tools	up to 100					
	Tool taper	HSK 63-100A					
	Tool changing time	15 sec, chip to chip					
FEED RATES	X-Y-Z-axes	0-2,400"/min (0-60 m/min)					
	A and C-axes	360 °/sec					
ACCELERATION		23 ft/sec^2 (7 m/sec^2)					

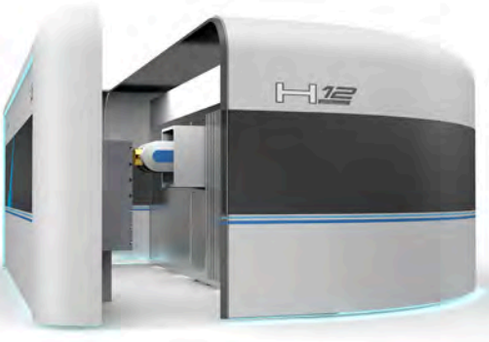
Subject to change.

HIGHLIGHTS

- Moving column machine
- Configurable from 80-240" (2,000-6,000 mm) in length
- T-slot table
- Spindle up to 200 hp (150 kW)
- Accuracy and precision to support the tightest-tolerance work requirement
- Multiple options makes the D80 well-suited for various industries
- Horizontal or vertical machining
- Dual zone machining option







The H12 is equipped to deliver high-end performance at a competitive price!

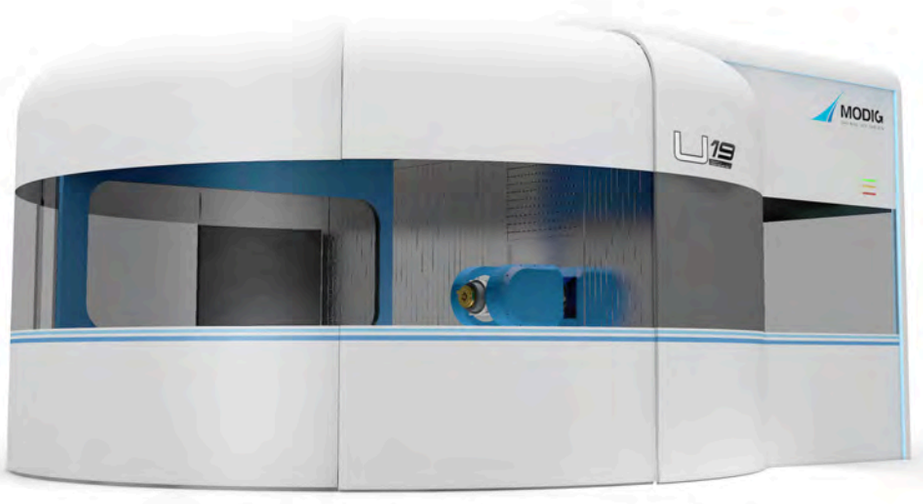
This horizontal 5-axis profiling machine is available between 80" (2,000 mm) to 240" (6,000 mm) of X-axis travel and Y-axis travel of 60" (1,500 mm). The H12 architecture is meant for parts vertically presented on a fixed table with horizontal machining. Optional pallet changing system is available.
The H12 is designed for high tolerances and superior quality surfaces, thanks to its "no Ram" architecture concept.
It is also well adapted for parts that are handled with its own fixture, such as frames, that can be loaded either from above or sideways. If requested, Modig can provide with a complete automatic handling system as per its standard modules.

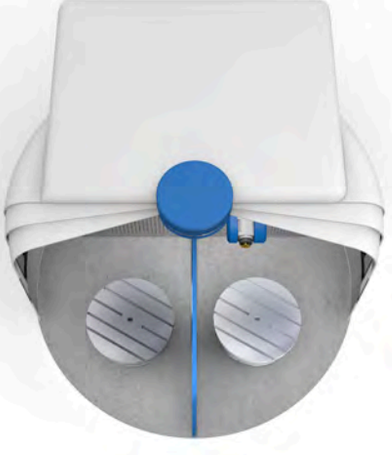
		H12 I 1	H12 I 2	H12 I 3
TRAVELS	X-axis	80” (2,000 mm)	160” (4,000 mm)	240” (6,000 mm)
	Y-axis	up to 60" (1,500 mm)		
	Z-axis	up to 60” (1,500 mm)		
	A-axis	+/- 110°		
	C-axis	+/- 360°		
MAX PART CROSS SECTION	Length	80” (2,000 mm)	160” (4,000 mm)	240” (6,000 mm)
	Height	60" (1,500 mm)		
	Thickness	14” (350 mm)		
ALUMINUM SPINDLE	Speed	up to 30,000 rpm		
	Power S1	up to 200 hp (150 kW)		
TOOL CHANGER	Number of tools	up to 300		
	Tool taper	HSK 63-100A		
	Tool changing time	15 sec, chip to chip		
FEED RATES	X-Y-Z-axes	0-2,400”/min (0-60 m/min)		
	A and C-axes	360°/sec		
ACCELERATION		23 ft/sec^2 (7 m/sec^2)		

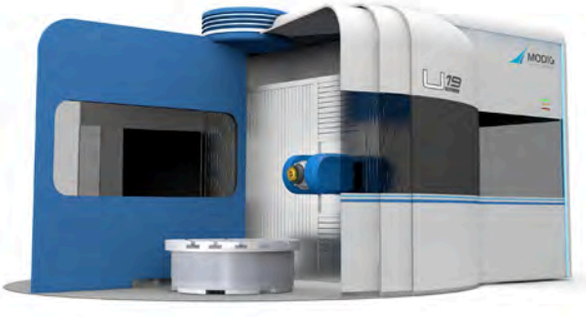
Subject to change.

HIGHLIGHTS

- Fixed table designed for high repeatability
- Lowest investment of the machines in the class
- Option for automatic pallet system compatible with industry standard FMS-system
- Pallet accessible by overhead crane
- Reduced foundation costs
- Up to 200 hp (150 kW) spindle
- Parts up to 240” (6,000 mm) length x 60” (1,500 m) height
- Suitable for key structural components
- Fixed machine table
- Tool magazine up to 300 tools
- Dual zone machining option







U19

PRODUCED BY MODIG MACHINE TOOL

Al UP CI S Ti

The U19 is a horizontal 5-axis machine configured for large rotary tables. Its architecture is meant for parts horizontally loaded, with horizontal machining, and the machining center is ideally adapted for medium or large serial parts production in aluminum. The U19 is designed with a complete machine housing that includes a working area where parts are clamped on a rotary table, up to 80" (2,000 mm) diameter and 55" (1,400 mm) height.

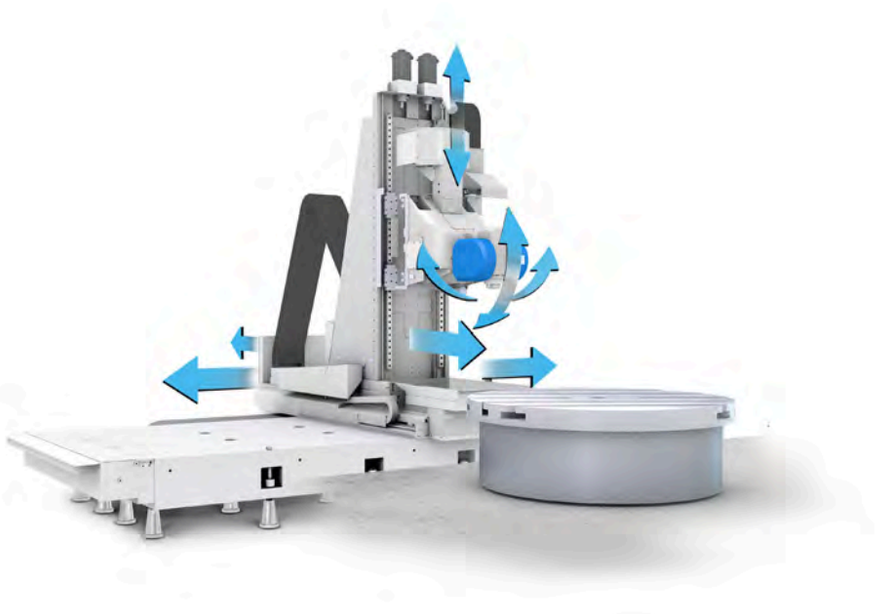
The versatility of this machine makes it easy for our customers to configure it for their specific needs. Dual rotary tables or automated pallet systems provide manufacturers with increased production flexibility, efficiency and the capability to accommodate a variety of products. Its "no Ram" feature allows extreme accuracies and high surface quality.
The Modig rotary tables, which can be installed in dual zones with a tool changer in between, can be equipped with four indexing positions or with continuous C-axis.
Depending on requirement, the U19 will be equipped with either 4th axis spindle or 5th axis spindle and a 6th axis from the rotary table.

		U19
TRAVELS	X-axis	160” (4,000 mm)
	Y-axis	up to 55” (1,400 mm)
	Z-axis	up to 60” (1,500 mm)
	A-axis	+/- 110°
	C-axis	+/- 360°
MAX PART CROSS SECTION	Length	80” (2,000 mm)
	Width	80” (2,000 mm)
	Height	55” (1,400 mm)
ROTARY TABLE	Speed	up to 2,000 rpm
	Max torque	up to 1,475 ft-lbs (8,000 Nm)
	Diameter	up to 80” (2,000 mm)
	Max load	up to 11,000 lbs (5,000 kg)
ALUMINUM SPINDLE	Speed	up to 30,000 rpm
	Power S1	up to 120 hp (88 kW)
HARD METAL SPINDLE	Speed	12,000 rpm
	Torque S1	330 ft-lbs (450 Nm)
TOOL CHANGER	Number of tools	up to 100
	Tool taper	HSK 63-100A
	Tool changing time	15 sec, chip to chip
FEEDRATES	X-Y-Z-axes	0-2,400”/min (0-60 m/min)
	A and C-axes	360°/sec
ACCELERATION		13 ft/sec² (4 m/sec²)

Subject to change.

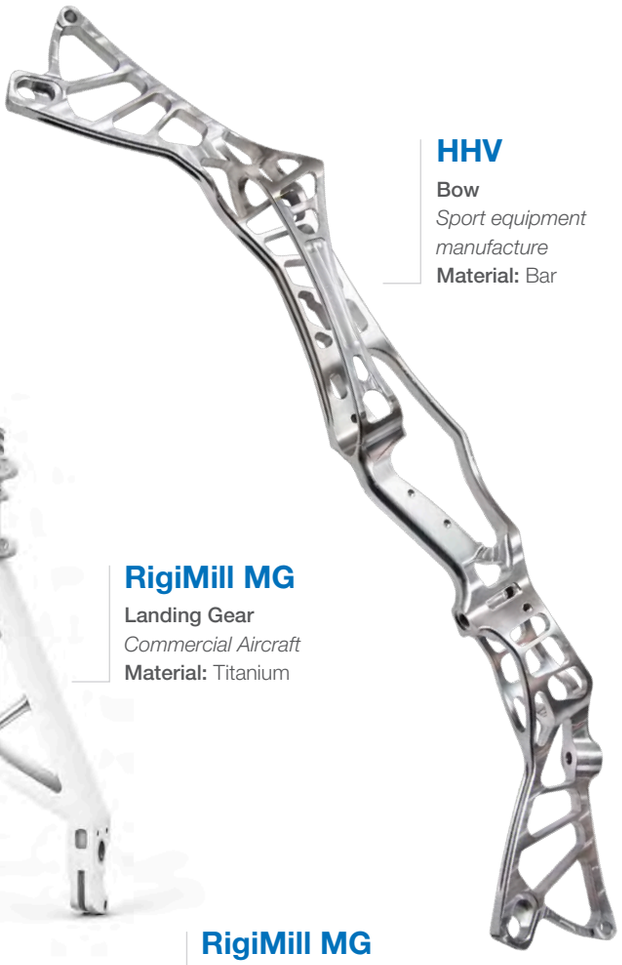
HIGHLIGHTS

- Horizontal 5-axis or 6-axis machine
- Five face accessibly
- Single or double work zones
- Configurable for large rotary tables with a diameter up to 80” (2,000 mm)
- Option for automatic pallet system
- Option for dual rotary tables
- Easy to configure to your specific needs
- Center tool magazine for dual work zones



MODIG MACHINE TOOL
Examples of components

HHV
Pistol Frame
Weapon Manufacture
Material: Bar

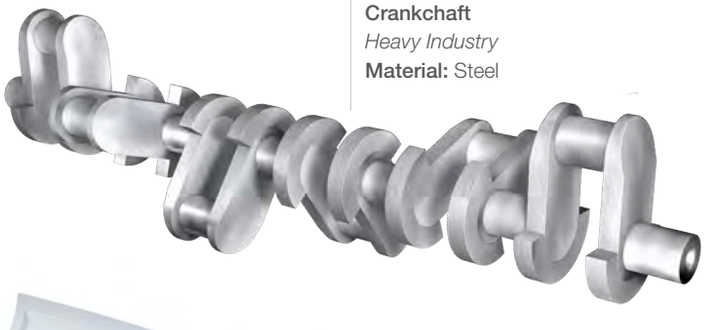


HHV
Bow
Sport equipment manufacture
Material: Bar

RigiMill MG
Landing Gear
Commercial Aircraft
Material: Titanium

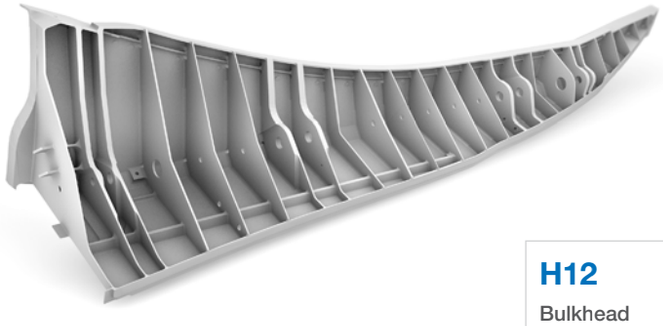
U19
Pump Housing
Power Industry
Material: Cast Iron

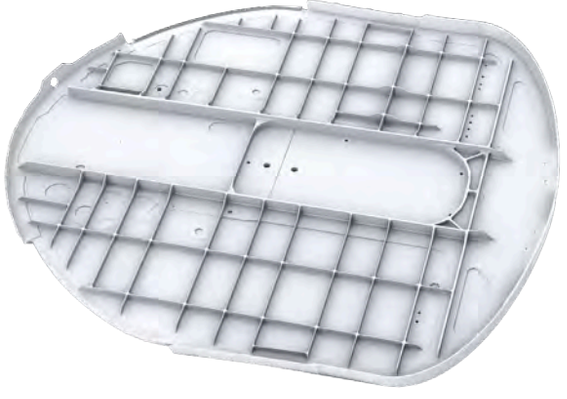
RigiMill MG
Crankchaft
Heavy Industry
Material: Steel



FlexiMill
Outer Panels
Commercial Aircraft
Material: Aluminum/Composite

RigiMill MT
Hinge and Latch
Commercial Aircraft
Material: Aluminum





H12
Bulkhead
Commercial Aircraft
Material: Aluminum

HHV

Link
Commercial Aircraft
Material: Aluminum

Previous time*: 97 minutes
HHV time: 23 minutes
Time savings: 74 minutes (76%)

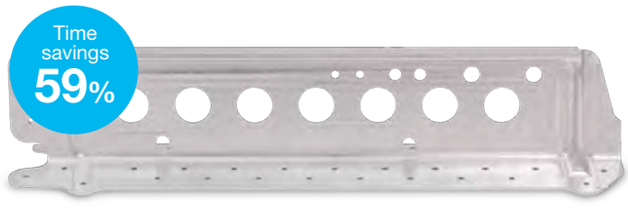
Width: 4" (95 mm)
Lenght: 23" (580 mm)
Thickness: 3" (70 mm)

HHV

Airload Rib
Commercial Aircraft
Material: Aluminum

Previous time*: 24 minutes
HHV time: 12 minutes
Time savings: 12 minutes (50%)

Width: 5" (120 mm)
Lenght: 10" (260 mm)
Thickness: 1" (28 mm)



RigiMill MG

Wing Stringer
Commercial Aircraft
Material: Aluminum

Previous time*: 205 minutes
RigiMill time: 74 minutes
Time savings: 131 minutes (64%)

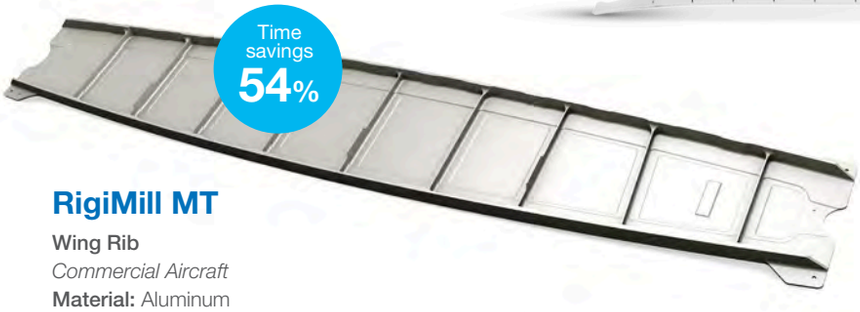
Width: 6" (150 mm)
Lenght: 551" (14,000 mm)
Thickness: 2.5" (65 mm)

HHV

Military Part
Military and Defense
Material: Aluminum

Previous time*: 46 minutes
HHV time: 19 minutes
Time savings: 27 minutes (59%)

Width: 3" (70 mm)
Lenght: 12" (300 mm)
Thickness: 2.5" (62 mm)



RigiMill MT

Wing Rib
Commercial Aircraft
Material: Aluminum

Previous time*: 64 minutes
RigiMill time: 29 minutes
Time savings: 35 minutes (54%)

Width: 12" (300 mm)
Lenght: 75" (1,900 mm)
Thickness: 1.5" (40 mm)

RigiMill MG

Wing Spar
Commercial Aircraft
Material: Aluminum

Previous time*: 26 hours
RigiMill time: 6,5 hours
Time savings: 19.5 hours (75%)

Width: 22" (550 mm)
Lenght: 484" (12,300 mm)
Thickness: 2" (55 mm)

**Previous time with well-known multi machining center*

TOMORROWS TECHNOLOGY TODAY

PRODUCTS

RigiMill MG	Aluminum, Composite, Cast Iron, Steel and Titanium
RigiMill MT	Aluminum, Composite, Cast Iron, Steel and Titanium
HHV 2	Aluminum, Composite, Steel and Titanium
HHV 3	Aluminum, Composite, Steel and Titanium
FlexiMill	Aluminum and Composite
P51	Aluminum, Composite, Cast Iron, Steel and Titanium
D80	Aluminum, Composite, Cast Iron, Steel and Titanium
H12	Aluminum and Composite
U19	Aluminum, Composite, Cast Iron, Steel and Titanium

MODIG
MACHINE TOOL SWEDEN

2020-1

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